WHAT IS CLAIMED IS:

- An isolated polynucleotide selected from the group consisting of:
- (a) a polynucleotide encoding an NTT polypeptide having the deduced amino acid sequence of Figure 1 or a fragment, analog or derivative of said polypeptide;
- (b) a polynucleotide encoding an NTT polypeptide having the amino acid sequence encoded by the cDNA contained in ATCC Deposit No. 75713 or a fragment, analog or derivative of said polypeptide.
- The polynucleotide of Claim 1 wherein the polynucleotide is DNA.
- The polynucleotide of Claim 1 wherein the polynucleotide is RNA.
- The polynucleotide of Claim 1 wherein the .
 polynucleotide is genomic DNA.
- 5. The polynucleotide of Claim 2 wherein said polynucleotide encodes an NTT having the deduced amino acid sequence of Figure 1.
- 6. The polynucleotide of Claim 2 wherein said polynucleotide encodes an NTT polypeptide encoded by the cDNA of ATCC Deposit No. 75713.
- 7. The polynucleotide of Claim 1 having the coding sequence for NTT as shown in Figure 1.
- 8. The polynucleotide of Claim 2 having the coding sequence for NTT deposited as ATCC Deposit No. 75713.
- A vector containing the DNA of Claim 2.
- 10. A host cell genetically engineered with the vector of . Claim 9.
- 11. A process for producing a polypeptide comprising: expressing from the host cell of Claim 10 the polypeptide encoded by said DNA.
- 12. A process for producing cells capable of expressing a polypeptide comprising genetically engineering cells with the vector of Claim 9.

- 13. An isolated DNA hybridizable to the DNA of Claim 2 and encoding a polypeptide having NTT activity.
- 14. A polypeptide selected from the group consisting of (i) an NTT polypeptide having the deduced amino acid sequence of Figure 1 and fragments, analogs and derivatives thereof and (ii) an NTT polypeptide encoded by the cDNA of ATCC Deposit No. 75713 and fragments, analogs and derivatives of said polypeptide.
- 15. The polypeptide of Claim 14 wherein the polypeptide is NTT having the deduced amino acid sequence of Figure 1.
- 16. An antibody against the polypeptide of claim 14.
- 17. An antagonist/inhibitor against the polypeptide of claim 14
- 18. An agonist for the polypeptide of claim 14.
- 19. A method for the treatment of a patient having need of an agonist to NTT comprising: administering to the patient a therapeutically effective amount of the agonist of claim 18.
- 20. A method for the treatment of a patient having need to inhibit NTT comprising: administering to the patient a therapeutically effective amount of the antagonist/inhibitor of Claim 17.
- 21. A pharmaceutical composition comprising the polypeptide of Claim 14 and a pharmaceutically acceptable carrier.
- 22. A method of administering a therapeutically effective amount of the NTT polypeptide comprising providing to a patient DNA encoding said polypeptide and expressing said polypeptide in vivo.
- 23. A method of screening compounds to identify compounds which interact with NTT which comprises:

transforming mammalian cells with a vector containing a polynucleotide encoding $\ensuremath{\mathtt{NTT}};$

labelling the natural neurotransmitter of NTT; incubating the cells, the labelled NTT and a compound; determining the effectiveness of translocation of the neurotransmitter into the cells by NTT; and

identifying the compound as being either an antagonist or an agonist to NTT.